

**Area of Study: Agriculture, Food and Natural Resources**

<h3>Career Pathway: Plant Systems</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">CAREER AND TECHNICAL EDUCATION</th><th rowspan="2">18</th><th rowspan="2">Careers in Agriculture are:</th></tr> <tr> <th colspan="6">Recommended Pathway Courses</th></tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">Students may select individual courses for exploration or a complete Pathway for an in-depth focus</td><td></td><td></td></tr> <tr> <th colspan="6">CLASS AVAILABILITY MAY VARY AT YOUR SCHOOL</th></tr> <tr> <th>Course #</th><th colspan="2">Foundation Courses (required)</th><th>Credit</th><td></td><td></td></tr> <tr> <td>18001</td><td colspan="2">Introduction to Agriculture (Ag I)</td><td>.5/1.0</td><td></td><td></td></tr> <tr> <td>18051</td><td colspan="2">Plant Production/ Science</td><td>.50/1.0</td><td></td><td></td></tr> <tr> <td>18052</td><td colspan="2">General Horticulture</td><td>05./1.0</td><td></td><td></td></tr> <tr> <td>18307</td><td colspan="2" rowspan="2">Agriculture and Society</td><td>.50/1.0</td><td></td><td></td></tr> <tr> <th colspan="6">Elective Courses</th></tr> <tr> <td>18002</td><td colspan="2">Agriculture- Comprehensive (Ag II)</td><td>.50/1.0</td><td></td><td></td></tr> <tr> <td>18053</td><td colspan="2">Ornamental Horticulture</td><td>0.5/1.0</td><td></td><td></td></tr> <tr> <td>18054</td><td colspan="2">Turf and Landscape Management</td><td>0.5/1.0</td><td></td><td></td></tr> <tr> <td>18055</td><td colspan="2">Soil Science</td><td>.50/1.0</td><td></td><td></td></tr> <tr> <td>18203</td><td colspan="2">Agricultural Leadership</td><td>0.5/1.0</td><td></td><td></td></tr> <tr> <td>18202</td><td colspan="2">Agricultural Entrepreneurship</td><td>0.5/1.0</td><td></td><td></td></tr> <tr> <td>18098</td><td colspan="2" rowspan="2">Plant Systems-Workplace Experience (SAE)</td><td>.50/1.0</td><td></td><td></td></tr> <tr> <td colspan="6" style="text-align: center;">Foundation courses taken beyond the required credits can be used as elective credit. Additional CTE Credits are recommended for Pathway completion</td></tr> </tbody> </table>	CAREER AND TECHNICAL EDUCATION				18	Careers in Agriculture are:	Recommended Pathway Courses						Students may select individual courses for exploration or a complete Pathway for an in-depth focus						CLASS AVAILABILITY MAY VARY AT YOUR SCHOOL						Course #	Foundation Courses (required)		Credit			18001	Introduction to Agriculture (Ag I)		.5/1.0			18051	Plant Production/ Science		.50/1.0			18052	General Horticulture		05./1.0			18307	Agriculture and Society		.50/1.0			Elective Courses						18002	Agriculture- Comprehensive (Ag II)		.50/1.0			18053	Ornamental Horticulture		0.5/1.0			18054	Turf and Landscape Management		0.5/1.0			18055	Soil Science		.50/1.0			18203	Agricultural Leadership		0.5/1.0			18202	Agricultural Entrepreneurship		0.5/1.0			18098	Plant Systems-Workplace Experience (SAE)		.50/1.0			Foundation courses taken beyond the required credits can be used as elective credit. Additional CTE Credits are recommended for Pathway completion					
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<b>High School</b> <a href="#">Administrative Rules of Montana 10.55.905</a>		<b>9th Grade Suggested</b>	<b>10th Grade Suggested</b>	<b>11th Grade Suggested</b>	<b>12th Grade Suggested</b>	<b>Beyond High School</b>																																																																																																						
English/Language Arts	<b>4.0</b>	English 9 1.0	English 10 1.0	English 11 1.0	English 12 1.0	There are many options for education and training beyond high school, depending on your career goals.																																																																																																						
Mathematics	<b>2.0</b>	Math* 1.0	Math* 1.0	Math* 1.0	Math* 1.0	<ul style="list-style-type: none"> <li>• Certificate</li> <li>• Associate degree</li> <li>• Bachelor's degree</li> <li>• Professional degree</li> <li>• On-the-job training</li> <li>• Apprenticeship</li> <li>• Military training</li> </ul>																																																																																																						
Social Studies	<b>2.0</b>	Social Studies* .50/1.0	Social Studies* .50/1.0	U.S History 1.0	U.S. Government 1.0																																																																																																							
Science	<b>2.0</b>	Earth Science 1.0	Biology 1.0	Science Elective*																																																																																																								
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Work-Based Learning	Participation in a Pathway-related work-based learning experience																																																																																																											
Career and Technical Student Organization	National FFA Organization																																																																																																											
<ul style="list-style-type: none"> <li>• *Talk to your school counselor about requirements in the core curriculum. Core curriculum and elective requirements vary district to district.</li> <li>• Many CTE courses may qualify for dual enrollment credit, which in some cases may earn up to 1.0 credit toward Pathway completion. Talk to your school counselor about availability.</li> </ul>						For more information on salary projections, labor market demand, and training options, visit <a href="#">lmi.mt.gov</a> .																																																																																																						